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EXE

Mod

ED 1

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EDSYS
LIB

L18

```

LL          IIIIII          SSSSSSSS
LL          IIIIII          SSSSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SSSSSS
LL          II             SSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

```

```
0001 0 %TITLE 'EDT$HELP - process the HELP commands'
0002 0 MODULE EDT$HELP ( ! Process the HELP commands
0003 0 IDENT = 'V04-000' ! File: HELP.B32 Edit: JBS2015
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 Process the HELP commands.
0037 1
0038 1 ENVIRONMENT: VAX/VMS only
0039 1
0040 1 AUTHOR: Bob Kushlis, CREATION DATE: 13-OCT-1979
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 2-005 - Regularized headers and made PIC. JBS 24-Feb-1981
0045 1 2-006 - Fix module name. JBS 05-Mar-1981
0046 1 2-007 - Use new message codes. JBS 04-Aug-1981
0047 1 2-008 - Add new message for no help on a key. SMB 19-Nov-1981
0048 1 2-009 - Add new global for help file name and default. SMB 17-Dec-1981
0049 1 2-010 - Print a message on close errors. JBS 12-Apr-1982
0050 1 2-011 - Return a value from setting the help file name. JBS 04-May-1982
0051 1 2-012 - Change default processing for SET HELP. SMB 25-May-1982
0052 1 2-013 - Maximum terminal width for the librarian is 132. JBS 18-Aug-1982
0053 1 2-014 - Add some code for OUTPUT_HELP but comment it out until VMS
0054 1 gives more support (.i.e. SET HELP command, more parameters...). SMB 01-Mar-1983
0055 1 2-015 - Improve the appearance of the listing. JBS 14-Jun-1983
0056 1 --
0057 1
```



```
: 59 0058 1 %SBTTL 'Declarations'
: 60 0059 1
: 61 0060 1 : TABLE OF CONTENTS:
: 62 0061 1 :
: 63 0062 1
: 64 0063 1 REQUIRE 'EDTSRC:TRAROUNAM';
: 65 0502 1
: 66 0503 1 FORWARD ROUTINE
: 67 0504 1     EDT$$OUT_HLP : NOVALUE,
: 68 0505 1     GET_HELP;
: 69 0506 1     EDT$$SET_HLPFNAM;
: 70 0507 1
: 71 0508 1 :
: 72 0509 1 : INCLUDE FILES:
: 73 0510 1 :
: 74 0511 1
: 75 0512 1 REQUIRE 'EDTSRC:EDTREQ';
: 76 0647 1
: 77 0648 1 REQUIRE 'EDTSRC:SYSSYM';
: 78 0678 1
: 79 0679 1 :
: 80 0680 1 : MACROS:
: 81 0681 1 :
: 82 0682 1 :     NONE
: 83 0683 1 :
: 84 0684 1 : EQUATED SYMBOLS:
: 85 0685 1 :
: 86 0686 1 :     NONE
: 87 0687 1 :
: 88 0688 1 : OWN STORAGE:
: 89 0689 1 :
: 90 0690 1
: 91 0691 1 OWN
: 92 0692 1     KEY_COUNT,
: 93 0693 1     LINE_HELP;
: 94 0694 1
: 95 0695 1
: 96 0696 1 :
: 97 0697 1 : EXTERNAL REFERENCES:
: 98 0698 1 :
: 99 0699 1
100 0700 1 EXTERNAL ROUTINE
101 0701 1     EDT$$FIOPN_ERR,
102 0702 1     EDT$$CNV_UPC,
103 0703 1     EDT$$OUT_FMTBUF,
104 0704 1     EDT$$FMT_STR,
105 0705 1     EDT$$FMT_LIT,
106 0706 1     EDT$$FMT_CRLF,
107 0707 1     EDT$$FMT_MSG,
108 0708 1     EDT$$MSG_TOSTR,
109 0709 1     LBR$INI_CONTROL,
110 0710 1     LBR$OPEN,
111 0711 1     LBR$GET_INPUT,
112 0712 1     LBR$PUT_OUTPUT,
113 0713 1     LBR$OUTPUT_HELP,
114 0714 1     LBR$GET_HELP,
115 0715 1     LBR$CLOSE;
```

! Print help using LBR\$GET_HELP

! Count of the key number we're on
! 1= use line mode help format

! 0= use keypad mode help format

EDT\$HELP
V04-000

EDT\$HELP - process the HELP commands
Declarations

8 8
16-Sep-1984 00:31:46
14-Sep-1984 12:23:16

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]HELP.B32;1

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(2)

```
: 116      0716 1
: 117      0717 1 EXTERNAL
: 118      0718 1      EDT$SZ_LBR_INDEX,      ! LBR control table index.
: 119      0719 1      EDT$ST_HDEF_NAM,        ! Help file default specs
: 120      0720 1      EDT$ST_HDEF_FILE,        ! Help file default file name
: 121      0721 1      EDT$ST_HELP_NAM,
: 122      0722 1      EDT$SG_HELP_NAMLEN,
: 123      0723 1      EDT$SG_HELP_SET,
: 124      0724 1      EDT$SA_FMT_CUR,
: 125      0725 1      EDT$ST_FMT_BUF,
: 126      0726 1      EDT$SG_TI_WID;
: 127
: 128      0728 1 MESSAGES ((NOHLPVL, HLPFILCLO, FILNAM, NOKEYHLP, NOHLPINI, INVSTR));
```



```
130 0729 1 %SBTTL 'EDT$$OUT_HLP - HELP command'
131 0730 1
132 0731 1 GLOBAL ROUTINE EDT$$OUT_HLP (
133 0732 1     STRING,
134 0733 1     LENG,
135 0734 1     ADDITIONAL
136 0735 1     ) : NOVALUE =
137 0736 1
138 0737 1 ++
139 0738 1 FUNCTIONAL DESCRIPTION:
140 0739 1
141 0740 1     Process the HELP commands.
142 0741 1
143 0742 1 FORMAL PARAMETERS:
144 0743 1
145 0744 1     STRING           Address of the text string that contains the HELP arguments
146 0745 1
147 0746 1     LENG             Length of that string
148 0747 1
149 0748 1     ADDITIONAL       ? = print key names and additional help
150 0749 1
151 0750 1 IMPLICIT INPUTS:
152 0751 1
153 0752 1     EDT$$G_HELP_SET
154 0753 1
155 0754 1 IMPLICIT OUTPUTS:
156 0755 1
157 0756 1     NONE
158 0757 1
159 0758 1 ROUTINE VALUE:
160 0759 1
161 0760 1     NONE
162 0761 1
163 0762 1 SIDE EFFECTS:
164 0763 1
165 0764 1     Calls EDT$$SET_HLPFNAM if it has not already been called.
166 0765 1
167 0766 1 --
168 0767 1
169 0768 2 BEGIN
170 0769 2
171 0770 2 LOCAL
172 0771 2     HELP_DESC : BLOCK [8, BYTE]           ! String descriptor for help file name
173 0772 2     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
174 0773 2               [DSC$B_CLASS] = DSC$K_CLASS_S),
175 0774 2     LINE_DESC : BLOCK [8, BYTE]           ! Output string descriptor for LBR$OUTPUT_HELP
176 0775 2     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
177 0776 2               [DSC$B_CLASS] = DSC$K_CLASS_S),
178 0777 2     HELP_FLAGS,
179 0778 2     OPEN_STATUS,
180 0779 2     LENGTH_POINTER,
181 0780 2     POINTER,
182 0781 2     E_POINT,
183 0782 2     TOPICS : BLOCKVECTOR [5, 8, BYTE],    ! Topic descriptors.
184 0783 2     GET_HELP_ARGS : VECTOR [10],
185 0784 2     NUM_TOPICS,
186 0785 2     GET_HELP_STATUS;
```



```
187 0786 2
188 0787 2
189 0788 2 + If we are using line mode help format then we want additional information
190 0789 2 to be printed. If we are using keypad help format then we don't want the
191 0790 2 additional topics to be displayed.
192 0791 2
193 0792 2 LINE_HELP = .ADDITIONAL;
194 0793 2
195 0794 2 + The following will have code to be used for LBR$OUTPUT_HELP turned off by
196 0795 2 use of comments until VMS implements the SET HELP/PROMPT command.
197 0796 2
198 0797 2 IF (.LINE_HELP EQL 0)
199 0798 2 THEN
200 0799 2 BEGIN
201 0800 2
202 0801 2 + We cannot use LBR$OUTPUT_HELP so we must initialize the file, open it
203 0802 2 and parse the help topics to prepare them for LBR$GET_HELP.
204 0803 2
205 0804 2 +
206 0805 2 If EDT$$G_HELP_SET then the help file has already been opened, so
207 0806 2 set OPEN_STATUS
208 0807 2
209 0808 2
210 0809 2 IF ( NOT .EDT$$G_HELP_SET)
211 0810 2 THEN
212 0811 2 OPEN_STATUS = EDT$$SET_HLPFNAM (CH$PTR (EDT$$T_HELP_NAM),
213 0812 2 .EDT$$G_HELP_NAMLEN)
214 0813 2
215 0814 2 ELSE
216 0815 2 OPEN_STATUS = 1;
217 0816 2
218 0817 2 IF (.OPEN_STATUS)
219 0818 2 THEN
220 0819 2 BEGIN
221 0820 2 + Isolate all the topic strings in the command.
222 0821 2
223 0822 2 POINTER = .STRING;
224 0823 2 E_POINT = CH$PTR (.POINTER, .LENG);
225 0824 2 EDT$$CNV_UPC (.POINTER, .LENG);
226 0825 2
227 0826 2 INCR I FROM 0 TO 4 DO
228 0827 2 BEGIN
229 0828 2 TOPICS [.I, DSC$W_LENGTH] = 0;
230 0829 2 TOPICS [.I, DSC$B_DTYPE] = DSC$K_DTYPE_T;
231 0830 2 TOPICS [.I, DSC$B_CLASS] = DSC$K_CLASS_S;
232 0831 2 TOPICS [.I, DSC$A_POINTER] = 0;
233 0832 2 END;
234 0833 2
235 0834 2 INCR I FROM 0 TO 4 DO
236 0835 2 BEGIN
237 0836 2
238 0837 2 WHILE ((CH$DIFF (.POINTER, .E_POINT) LSS 0) AND !
239 0838 2 (CH$RCHAR (.POINTER) EQL %C' ') OR !
240 0839 2 (CH$RCHAR (.POINTER) EQL ASC_K_TAB)) DO
241 0840 2 POINTER = CH$PLUS (.POINTER, -1);
242 0841 2
243 0842 2 IF CH$DIFF (.POINTER, .E_POINT) EQL 0
```



```
244 0843 4 THEN
245 0844 5 BEGIN
246 0845 5 NUM_TOPICS = .1;
247 0846 5 EXITLOOP;
248 0847 4 END;
249 0848 4
250 0849 4 TOPICS [.1, DSC$A_POINTER] = .POINTER;
251 0850 4
252 0851 4 IF (CH$RCHAR (.POINTER) EQL %C'/' ) THEN POINTER = CH$PLUS (.POINTER, 1);
253 0852 4
254 0853 5 WHILE ((CH$DIFF (.POINTER, .E POINT) LSS 0) AND !
255 0854 5 (CH$RCHAR (.POINTER) NEQ %C' ') AND !
256 0855 5 (CH$RCHAR (.POINTER) NEQ ASC K TAB) AND !
257 0856 4 (CH$RCHAR (.POINTER) NEQ %C'7') DO
258 0857 4 POINTER = CH$PLUS (.POINTER, 1);
259 0858 4
260 0859 4 TOPICS [.1, DSC$W_LENGTH] = CH$DIFF (.POINTER, .TOPICS [.1, DSC$A_POINTER]);
261 0860 4 END;
262 0861 3
263 0862 3 !+
264 0863 3 !- If no topics are found, then default to help.
265 0864 3 !-
266 0865 3
267 0866 4 IF (.NUM_TOPICS EQL 0)
268 0867 3 THEN
269 0868 4 BEGIN
270 0869 4 NUM_TOPICS = 1;
271 0870 4 TOPICS [0, DSC$W_LENGTH] = 4;
272 0871 4 TOPICS [0, DSC$A_POINTER] = UPLIT BYTE('HELP');
273 0872 3 END;
274 0873 3
275 0874 3 !+
276 0875 3 !- Now, ask for help!
277 0876 3 !-
278 0877 3 KEY_COUNT = 0;
279 0878 3 GET_HELP_STATUS = LBR$GET_HELP (EDT$$Z_LBR_INDEX, %REF (MIN (132, .EDT$$G_TI_WID)), GET_HELP,
280 0879 3 _LINE_HELP, TOPICS [0, 0, 0, 0, 0], TOPICS [1, 0, 0, 0, 0], TOPICS [2, 0, 0, 0, 0], -!
281 0880 3 TOPICS [3, 0, 0, 0, 0], TOPICS [4, 0, 0, 0, 0]);
282 0881 3
283 0882 3 IF ( NOT .GET_HELP_STATUS) THEN SIGNAL_STOP (.GET_HELP_STATUS);
284 0883 3
285 0884 3 !+
286 0885 3 !- And output any remaining characters.
287 0886 3 !-
288 0887 3
289 0888 3 IF (.EDT$$A_FMT_CUR NEQA EDT$$T_FMT_BUF) THEN EDT$$OUT_FMTBUF ();
290 0889 3
291 0890 3 END;
292 0891 2
293 0892 2 !+
294 0893 2 !- Code specific to the use of LBR$OUTPUT_HELP. WE don't have to parse
295 0894 2 the help line in this case so we skip the above code. Note also that
296 0895 2 LBR$OUTPUT_HELP does its own initialization and opening of the help
297 0896 2 file.
298 0897 2 !-
299 0898 2 END
300 0899 2 ELSE
```

```
0900 2 | BEGIN
0901 2 | HELP_FLAGS = HLP$M_PROCESS + HLP$M_GROUP + HLP$M_SYSTEM; ! Use HLP$M_PROMPT for ?[Sub]Topic promptin
0902 2 | HELP_DESC [DSC$W_LENGTH] = .EDT$$G_HELP_NAMLEN;
0903 2 | HELP_DESC [DSC$A_POINTER] = (CH$PTR(EDT$$T_HELP_NAM));
0904 2 | POINTER = .STRING;
0905 2 | LINE_DESC [DSC$A_POINTER] = .POINTER;
0906 2 | LINE_DESC [DSC$W_LENGTH] = .LENG;
0907 2 |
0908 2 | +
0909 2 | For the call to LBR$OUTPUT_HELP we may want to use our own output routine
0910 2 | in place of LIB$PUT_OUTPUT, although this seems to be adequate when tested.
0911 2 |
0912 2 | If the prompting bit is on, then we must supply our own input routine in place
0913 2 | of LIB$GET_INPUT because prompt responses may be coming from a journal or
0914 2 | initialization file. We cannot turn this bit on until VMS provides a SET
0915 2 | HELP/[NO]PROMPT command for compatibility reasons.
0916 2 |
0917 2 | Without HLP$M_PROMPT set, the only thing we buy with this code is the ability
0918 2 | to say 'HELP @newhelpfile command'. Without resorting to LBR$OUTPUT_HELP you
0919 2 | could get help from another help file by simply typing 'SET HELP newhelpfile
0920 2 | and then 'HELP command'. When you want to set help back to the default
0921 2 | help file you simply type 'SET HELP'.
0922 2 |
0923 2 | GET_HELP_STATUS = LBR$OUTPUT_HELP (LIB$PUT_OUTPUT, %REF ((MIN (132, .EDT$$G_TI_WID))), LINE_DESC, HE
0924 2 | HELP_FLAGS, LIB$GET_INPUT);
0925 2 |
0926 2 | IF ( NOT .GET_HELP_STATUS) THEN SIGNAL_STOP (.GET_HELP_STATUS);
0927 2 |
0928 2 | IF (.EDT$$A_FMT_CUR NEQA EDT$$T_FMT_BUF) THEN EDT$$OUT_FMTBUF ();
0929 2 |
0930 2 | END;
0931 2 |
0932 1 | END;
0933 1 |
```

! of routine EDT\$\$OUT_HLP

```
.TITLE EDT$HELP EDT$HELP - process the HELP commands
.IDENT \V04-000\
```

```
.PSECT _EDT$DATA,NOEXE, PIC,2
```

00000 KEY_COUNT:

```
.BLKB 4
```

00004 LINE_HELP:

```
.BLKB 4
```

```
.PSECT _EDT$CODE,NOWRT, SHR, PIC,2
```

50 4C 45 48 00000 P.AAA: .ASCII \HELP\ ;

```
.EXTRN EDT$$FIOPN_ERR, EDT$$CNV_UPC
.EXTRN EDT$$OUT_FMTBUF
.EXTRN EDT$$FMT_STR, EDT$$FMT_LIT
.EXTRN EDT$$FMT_CRLF, EDT$$FMT_MSG
.EXTRN EDT$$MSG_TOSTR, LBR$INI_CONTROL
.EXTRN LBR$OPEN, LIB$GET_INPUT
.EXTRN LIB$PUT_OUTPUT, LBR$OUTPUT_HELP
.EXTRN LBR$GET_HELP, LBR$CLOSE
```



```

. EXTRN      EDT$$Z_LBR_INDEX
. EXTRN      EDT$$T_HDEF_NAM
. EXTRN      EDT$$T_HDEF_FILE
. EXTRN      EDT$$T_HELP_NAM
. EXTRN      EDT$$G_HELP_NAMLEN
. EXTRN      EDT$$G_HELP_SET
. EXTRN      EDT$$A_FMT_CUR, EDT$$T_FMT_BUF
. EXTRN      EDT$$G_TI_QID, EDT$ NOHLPVL
. EXTRN      EDT$ HCPFILCLO, EDT$ FILNAM
. EXTRN      EDT$ NOKEYHLP, EDT$ NOHLPINI
. EXTRN      EDT$ INVSTR

```

Label	Address	Hex	Op	Op2	Op3	Op4	Op5	Op6	Op7	Op8	Op9	Op10	Op11	Op12	Op13	Op14	Op15	Op16	Op17	Op18	Op19	Op20	Op21	Op22	Op23	Op24	Op25	Op26	Op27	Op28	Op29	Op30	Op31	Op32	Op33	Op34	Op35	Op36	Op37	Op38	Op39	Op40	Op41	Op42	Op43	Op44	Op45	Op46	Op47	Op48	Op49	Op50	Op51	Op52	Op53	Op54	Op55	Op56	Op57	Op58	Op59	Op60	Op61	Op62	Op63	Op64	Op65	Op66	Op67	Op68	Op69	Op70	Op71	Op72	Op73	Op74	Op75	Op76	Op77	Op78	Op79	Op80	Op81	Op82	Op83	Op84	Op85	Op86	Op87	Op88	Op89	Op90	Op91	Op92	Op93	Op94	Op95	Op96	Op97	Op98	Op99	Op100	Op101	Op102	Op103	Op104	Op105	Op106	Op107	Op108	Op109	Op110	Op111	Op112	Op113	Op114	Op115	Op116	Op117	Op118	Op119	Op120	Op121	Op122	Op123	Op124	Op125	Op126	Op127	Op128	Op129	Op130	Op131	Op132	Op133	Op134	Op135	Op136	Op137	Op138	Op139	Op140	Op141	Op142	Op143	Op144	Op145	Op146	Op147	Op148	Op149	Op150	Op151	Op152	Op153	Op154	Op155	Op156	Op157	Op158	Op159	Op160	Op161	Op162	Op163	Op164	Op165	Op166	Op167	Op168	Op169	Op170	Op171	Op172	Op173	Op174	Op175	Op176	Op177	Op178	Op179	Op180	Op181	Op182	Op183	Op184	Op185	Op186	Op187	Op188	Op189	Op190	Op191	Op192	Op193	Op194	Op195	Op196	Op197	Op198	Op199	Op200	Op201	Op202	Op203	Op204	Op205	Op206	Op207	Op208	Op209	Op210	Op211	Op212	Op213	Op214	Op215	Op216	Op217	Op218	Op219	Op220	Op221	Op222	Op223	Op224	Op225	Op226	Op227	Op228	Op229	Op230	Op231	Op232	Op233	Op234	Op235	Op236	Op237	Op238	Op239	Op240	Op241	Op242	Op243	Op244	Op245	Op246	Op247	Op248	Op249	Op250	Op251	Op252	Op253	Op254	Op255	Op256	Op257	Op258	Op259	Op260	Op261	Op262	Op263	Op264	Op265	Op266	Op267	Op268	Op269	Op270	Op271	Op272	Op273	Op274	Op275	Op276	Op277	Op278	Op279	Op280	Op281	Op282	Op283	Op284	Op285	Op286	Op287	Op288	Op289	Op290	Op291	Op292	Op293	Op294	Op295	Op296	Op297	Op298	Op299	Op300	Op301	Op302	Op303	Op304	Op305	Op306	Op307	Op308	Op309	Op310	Op311	Op312	Op313	Op314	Op315	Op316	Op317	Op318	Op319	Op320	Op321	Op322	Op323	Op324	Op325	Op326	Op327	Op328	Op329	Op330	Op331	Op332	Op333	Op334	Op335	Op336	Op337	Op338	Op339	Op340	Op341	Op342	Op343	Op344	Op345	Op346	Op347	Op348	Op349	Op350	Op351	Op352	Op353	Op354	Op355	Op356	Op357	Op358	Op359	Op360	Op361	Op362	Op363	Op364	Op365	Op366	Op367	Op368	Op369	Op370	Op371	Op372	Op373	Op374	Op375	Op376	Op377	Op378	Op379	Op380	Op381	Op382	Op383	Op384	Op385	Op386	Op387	Op388	Op389	Op390	Op391	Op392	Op393	Op394	Op395	Op396	Op397	Op398	Op399	Op400	Op401	Op402	Op403	Op404	Op405	Op406	Op407	Op408	Op409	Op410	Op411	Op412	Op413	Op414	Op415	Op416	Op417	
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9E	52	D0	000A0	MOVL	POINTER, a(SP)+	
2F	62	91	000A3	CMPB	(POINTER), #47	0851
	02	12	000A6	BNEQ	11\$	
53	52	D6	000A8	10\$: INCL	POINTER	
	52	D1	000AA	11\$: CMPL	POINTER, E_POINT	0853
20	0F	18	000AD	BGEQ	12\$	
	62	91	000AF	CMPB	(POINTER), #32	0854
09	0A	13	000B2	BEQL	12\$	
	62	91	000B4	CMPB	(POINTER), #9	0855
2F	05	13	000B7	BEQL	12\$	
	62	91	000B9	CMPB	(POINTER), #47	0856
	EA	12	000BC	BNEQ	10\$	
	2C AE40	7F	000BE	12\$: PUSHAB	TOPICS[I]	0859
	34 AE40	7F	000C2	PUSHAB	TOPICS+4[I]	
9E	52	9E	A3 000C6	SUBW3	a(SP)+, POINTER, a(SP)+	
B1	50	04	F3 000CA	AOBLEQ	#4, I, 5\$	0834
		51	D5 000CE	13\$: TSTL	NUM_TOPICS	0866
		0D	12 000D0	BNEQ	14\$	
	51	01	D0 000D2	MOVL	#1, NUM_TOPICS	0869
2C	AE	04	B0 000D5	MOVW	#4, TOPICS	0870
30	AE	CF	9E 000D9	MOVAB	P.AAA, TOPICS+4	0871
	FF1F	A4	D4 000DF	14\$: CLRL	KEY_COUNT	0877
	FC	AE	9F 000E2	PUSHAB	TOPICS+32	0880
	4C	AE	9F 000E5	PUSHAB	TOPICS+24	
	48	AE	9F 000E8	PUSHAB	TOPICS+16	0879
	44	AE	9F 000EB	PUSHAB	TOPICS+8	
	40	AE	9F 000EE	PUSHAB	TOPICS	
	3C	AE	9F 000F1	PUSHL	R4	0878
	0000V	CF	9F 000F3	PUSHAB	GET_HELP	
1C	AE	00	D0 000F7	MOVL	EDT\$\$G_TI_WID, 28(SP)	
00000084	8F	AE	D1 000FF	CMPL	28(SP), #T32	
	1C	05	15 00107	BLEQ	15\$	
1C	AE	8F	9A 00109	MOVZBL	#132, 28(SP)	
	1C	AE	9F 0010E	15\$: PUSHAB	28(SP)	
	00000000G	00	9F 00111	PUSHAB	EDT\$\$Z_LBR_INDEX	
00000000G	00	09	FB 00117	CALLS	#9, LBR\$GET_HELP	0880
	09	50	E8 0011E	BLBS	GET_HELP_STATUS, 16\$	0882
		50	DD 00121	PUSHL	GET_HELP_STATUS	
00000000G	00	01	FB 00123	CALLS	#1, LIB\$STOP	
	50 00000000G	00	9E 0012A	16\$: MOVAB	EDT\$\$T_FMT_BUF, R0	0888
	50 00000000G	00	D1 00131	CMPL	EDT\$\$A_FMT_CUR, R0	
		07	13 00138	BEQL	17\$	
00000000G	00	00	FB 0013A	CALLS	#0, EDT\$\$OUT_FMTBUF	
		04	00141	17\$: RET		0932

; Routine Size: 322 bytes, Routine Base: _EDT\$CODE + 0004

; 334 0933 1

```
336 0934 1 %SBTTL 'GET_HELP - output HELP text'
337 0935 1 ROUTINE GET_HELP (
338 0936 1     DESC,
339 0937 1     FLAGS,
340 0938 1     ADDITIONAL,
341 0939 1     CUR_KEY_LEVEL
342 0940 1 ) =
343 0941 1
344 0942 1 !++
345 0943 1 FUNCTIONAL DESCRIPTION:
346 0944 1
347 0945 1     Output a line of help text. This routine is called from LBR$HELP.
348 0946 1
349 0947 1 FORMAL PARAMETERS:
350 0948 1
351 0949 1     DESC          The text to be output
352 0950 1
353 0951 1     FLAGS          Flag bits
354 0952 1
355 0953 1     ADDITIONAL      Data argument to LBR$HELP
356 0954 1
357 0955 1     CUR_KEY_LEVEL   Current key level
358 0956 1
359 0957 1 IMPLICIT INPUTS:
360 0958 1
361 0959 1     NONE
362 0960 1
363 0961 1 IMPLICIT OUTPUTS:
364 0962 1
365 0963 1     NONE
366 0964 1
367 0965 1 ROUTINE VALUE:
368 0966 1
369 0967 1     1
370 0968 1
371 0969 1 SIDE EFFECTS:
372 0970 1
373 0971 1     Calls EDT$$FMT_LIT and EDT$$FMT_CRLF .
374 0972 1
375 0973 1 !--
376 0974 1
377 0975 2 BEGIN
378 0976 2
379 0977 2 MAP
380 0978 2     DESC : REF BLOCK [8, BYTE];
381 0979 2
382 0980 2 IF ((..ADDITIONAL NEQ 0) OR (..FLAGS EQL 0))
383 0981 2 THEN
384 0982 2     BEGIN
385 0983 2         EDT$$FMT_LIT (.DESC [DSC$A_POINTER], .DESC [DSC$W_LENGTH]);
386 0984 2         EDT$$FMT_CRLF ();
387 0985 2     END
388 0986 2 ELSE
389 0987 2
390 0988 2     IF (..FLAGS EQL HLP$M_NOHLPTXT)
391 0989 2     THEN
392 0990 2 !+
```



```
0991 2 ! So the message won't get printed twice
0992 !-
0993
0994 IF (.KEY_COUNT EQL 0)
0995 THEN
0996 BEGIN
0997 EDT$$MSG_TOSTR (EDT$_NOKEYHLP);
0998 EDT$$FMT_CRLF ();
0999 KEY_COUNT = .KEY_COUNT + 1;
1000 END;
1001
1002 RETURN (1);
1003 END;
```

! of routine GET_HELP

```
000C 00000 GET_HELP:
53 00000000' EF 9E 00002 .WORD Save R2,R3
52 00000000G 00 9E 00009 MOVAB KEY_COUNT, R3
OC BC D5 00010 MOVAB EDT$$FMT_CRLF, R2
05 12 00013 TSTL @ADDITIONAL
08 BC D5 00015 BNEQ 1$
16 12 00018 TSTL @FLAGS
04 AC D0 0001A BNEQ 2$
7E 60 3C 0001E MOVZWL DESC, R0
04 A0 DD 00021 (R0), -(SP)
00 02 FB 00024 PUSHL 4(R0)
62 00 FB 0002B CALLS #2, EDT$$FMT_LIT
1C 11 0002E CALLS #0, EDT$$FMT_CRLF
01 08 BC D1 00030 BRB 3$
16 12 00034 CMPL @FLAGS, #1
63 D5 00036 BNEQ 3$
12 12 00038 TSTL KEY_COUNT
00000000G 8F DD 0003A BNEQ 3$
00 01 FB 00040 PUSHL #EDT$_NOKEYHLP
62 00 FB 00047 CALLS #1, EDT$$MSG_TOSTR
50 01 D0 0004C CALLS #0, EDT$$FMT_CRLF
04 0004F INCL KEY_COUNT
3$ MOVL #1, R0
RET
```

0935
0980
0983
0984
0980
0988
0994
0997
0998
0999
1002
1003

; Routine Size: 80 bytes, Routine Base: _EDT\$CODE + 0146


```

407 1004 1 %SBTTL 'EDT$$SET_HLPFNAM - set help library name'
408 1005 1
409 1006 1 GLOBAL ROUTINE EDT$$SET_HLPFNAM (
410 1007 1     ADDR,
411 1008 1     LEN
412 1009 1 ) =
413 1010 1
414 1011 1 ++
415 1012 1 FUNCTIONAL DESCRIPTION:
416 1013 1
417 1014 1     Set the name of the help library. Attempt an open to force a
418 1015 1     parse of the name and return an error if no help available.
419 1016 1
420 1017 1 FORMAL PARAMETERS:
421 1018 1
422 1019 1     ADDR                Address of new HELP library name
423 1020 1
424 1021 1     LEN                Length of that name
425 1022 1
426 1023 1 IMPLICIT INPUTS:
427 1024 1
428 1025 1     EDT$$T_HELP_NAM
429 1026 1     EDT$$G_HELP_NAMLEN
430 1027 1     EDT$$G_HELP_SET
431 1028 1     EDT$$Z_LBR_INDEX
432 1029 1
433 1030 1 IMPLICIT OUTPUTS:
434 1031 1
435 1032 1     EDT$$T_HELP_NAM
436 1033 1     EDT$$G_HELP_NAMLEN
437 1034 1     EDT$$G_HELP_SET
438 1035 1     EDT$$Z_LBR_INDEX
439 1036 1
440 1037 1 ROUTINE VALUE:
441 1038 1
442 1039 1     1 = success
443 1040 1     0 = invalid string
444 1041 1
445 1042 1 SIZE EFFECTS:
446 1043 1
447 1044 1     NONE
448 1045 1
449 1046 1 --
450 1047 1
451 1048 2 BEGIN
452 1049 2
453 1050 2 LOCAL
454 1051 2     RESULT LEN,
455 1052 2     PARSE_RNAM : BLOCK [NAM$C MAXRSS, BYTE],
456 1053 2     HELP_DESC : BLOCK [8, BYTE]
457 1054 2     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
458 1055 2             [DSC$B_CLASS] = DSC$K_CLASS_S )
459 1056 2     RESULT_DESC : BLOCK [8, BYTE]
460 1057 2     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
461 1058 2             [DSC$B_CLASS] = DSC$K_CLASS_S )
462 1059 2     HELP_DEFAULT_FILE_NAME_DESC : BLOCK [8, BYTE]
463 1060 2     PRESET ( [DSC$B_DTYPE] = DSC$K_DTYPE_T,
```

```

! Length of resultant name
! Help file name after OPEN
! Descriptor for help name
! Resultant help file name
! Help default file name
```

```

464      [DSC$B_CLASS] = DSC$K_CLASS_S);
465
466      IF (.LEN GTR NAM$C_MAXRSS)
467      THEN
468      BEGIN
469      EDT$$FMT MSG (EDT$_INVSTR);
470      RETURN (0);
471      END;
472      ! File name too long
473
474      IF (.LEN NEQ 0)
475      THEN
476      BEGIN
477      HELP_DESC [DSC$W_LENGTH] = .LEN;
478      HELP_DESC [DSC$A_POINTER] = CH$PTR (.ADDR);
479      END
480      ELSE
481      +
482      - No file name was given, so restore it to the default help file
483      BEGIN
484      HELP_DESC [DSC$W_LENGTH] = CH$RCHAR (EDT$$T_HDEF_FILE);
485      HELP_DESC [DSC$A_POINTER] = CH$PTR (EDT$$T_RDEF_FILE, 1);
486      END;
487
488      IF (.EDT$$G_HELP_SET)
489      THEN
490      +
491      - Close the old help library because we are opening a new one
492      IF ( NOT LBR$CLOSE (EDT$$Z_LBR_INDEX))
493      THEN
494      BEGIN
495      EDT$$FMT MSG (EDT$_HLPFILCLO);
496      RETURN (0)
497      END;
498
499      +
500      - Attempt to initialize the help library. Do this whenever Help is SET.
501      IF ( NOT LBR$INI_CONTROL (EDT$$Z_LBR_INDEX, %REF (LBR$C_READ), %REF (LBR$C_TYP_HLP)))
502      THEN
503      BEGIN
504      EDT$$FMT MSG (EDT$_NOHLPINI);
505      RETURN (0);
506      END;
507
508      +
509      - Set up the default help file name descriptor
510      HELP_DEFAULT_FILE_NAME_DESC [DSC$W_LENGTH] = CH$RCHAR (EDT$$T_HDEF_NAM);
511      HELP_DEFAULT_FILE_NAME_DESC [DSC$A_POINTER] = CH$PTR (EDT$$T_RDEF_NAM, 1);
512
513      +
514      - Set up the resultant help file name descriptor
515      RESULT_DESC [DSC$W_LENGTH] = NAM$C_MAXRSS;
```



```
1118 2      RESULT_DESC [DSC$A_POINTER] = CH$PTR (PARSE_HNAM);
1119 2      RESULT_LEN = 0;
1120 2      !+
1121 2      !- Attempt to open the help library.
1122 2
1123 2      IF ( NOT LBR$OPEN (EDT$$Z_LBR_INDEX, HELP_DESC, 0, HELP_DEFAULT_FILE_NAME_DESC, 0, RESULT_DESC,
1124 2      RESULT_LEN))
1125 2      THEN
1126 2      BEGIN
1127 2      EDT$$G_HELP_SET = 0;                                ! Next time re-open the old help file
1128 2      EDT$$FMT_MSG (EDT$ NOHLPVL);
1129 2      EDT$$MSG_TOSTR (EDT$_FILNAM);
1130 2
1131 2      IF (.RESULT_LEN EQL 0)
1132 2      THEN
1133 2      EDT$$FMT_STR (.HELP_DESC [DSC$A_POINTER], .HELP_DESC [DSC$W_LENGTH])
1134 2      ELSE
1135 2      EDT$$FMT_STR (.RESULT_DESC [DSC$A_POINTER], .RESULT_LEN);
1136 2
1137 2      EDT$$OUT_FMTBUF ();
1138 2      RETURN (0);
1139 2      END;
1140 2
1141 2      EDT$$G_HELP_SET = 1;                                ! Means that SET_HELP was successful in opening a help file
1142 2      !+
1143 2      !- Store the new Help File name and name length in the globals
1144 2
1145 2      EDT$$CPY_MEM (.RESULT_LEN, CH$PTR (PARSE_HNAM), CH$PTR (EDT$$T_HELP_NAM));
1146 2      EDT$$G_HELP_NAMLEN = .RESULT_LEN;
1147 2      RETURN (1);
1148 2
1149 1      END;                                ! of routine EDT$$SET_HLPFNAM
```

			01FC 00000	.ENTRY	EDT\$\$SET_HLPFNAM, Save R2,R3,R4,R5,R6,R7,R8 ;	1006
	58	00000000G	00 9E 00002	MOVAB	EDT\$\$FMT_MSG, R8	
	57	00000000G	00 9E 00009	MOVAB	EDT\$\$Z_LBR_INDEX, R7	
	56	00000000G	00 9E 00010	MOVAB	EDT\$\$G_HELP_SET, R6	
	5E	FEDC	CE 9E 00017	MOVAB	-292(SP), SP	
1C	AE	010E0000	8F D0 0001C	MOVL	#17694720, HELP_DESC	1055
		20	AE D4 00024	CLRL	HELP_DESC+4	
14	AE	010E0000	8F D0 00027	MOVL	#17694720, RESULT_DESC	1058
		18	AE D4 0002F	CLRL	RESULT_DESC+4	
0C	AE	010E0000	8F D0 00032	MOVL	#17694720, HELP_DEFAULT_FILE_NAME_DESC	1061
		10	AE D4 0003A	CLRL	HELP_DEFAULT_FICE_NAME_DESC+4	
000000FF	8F	08	AC D1 0003D	CML	LEN, #255	1063
			08 15 00045	BLEQ	1\$	
		00000000G	8F DD 00047	PUSHL	#EDT\$_INVSTR	1066
			58 11 0004D	BRB	5\$	
		08	AC D5 0004F	TSTL	LEN	1070
			0C 13 00052	BEQL	2\$	
1C	AE	08	AC B0 00054	MOVW	LEN, HELP_DESC	1073
20	AE	04	AC D0 00059	MOVL	ADDR, HELP_DESC+4	1074
			10 11 0005E	BRB	3\$	1070

1C	AE	00000000G	00	9B	00060	2\$:	MOVZBW	EDT\$\$T_HDEF_FILE, HELP_DESC	1081	
20	AE	00000000G	00	9E	00068		MOVAB	EDT\$\$T_HDEF_FILE+1, HELP_DESC+4	1082	
14			66	E9	00070	3\$:	BLBC	EDT\$\$G_HELP_SET, 4\$	1085	
			57	DD	00073		PUSHL	R7	1091	
00000000G	00		01	FB	00075		CALLS	#1, LBR\$CLOSE		
	08		50	E8	0007C		BLBS	R0, 4\$		
		00000000G	8F	DD	0007F		PUSHL	#EDT\$_HLPFILCLO	1094	
			20	11	00085		BRB	5\$		
04	AE		03	D0	00087	4\$:	MOVL	#3, 4(SP)	1102	
		04	AE	9F	0008B		PUSHAB	4(SP)		
04	AE		01	D0	0008E		MOVL	#1, 4(SP)		
		04	AE	9F	00092		PUSHAB	4(SP)		
			57	DD	00095		PUSHL	R7		
00000000G	00		03	FB	00097		CALLS	#3, LBR\$INI_CONTROL		
	08		50	E8	0009E		BLBS	R0, 6\$		
		00000000G	8F	DD	000A1		PUSHL	#EDT\$_NOHLPINI	1105	
	68		01	FB	000A7	5\$:	CALLS	#1, EDT\$\$FMT_MSG		
			73	11	000AA		BRB	9\$	1106	
0C	AE	00000000G	00	9B	000AC	6\$:	MOVZBW	EDT\$\$T_HDEF_NAM, -	1112	
								HELP_DEFAULT_FILE_NAME_DESC		
10	AE	00000000G	00	9E	000B4		MOVAB	EDT\$\$T_HDEF_NAM+1, -	1113	
								HELP_DEFAULT_FILE_NAME_DESC+4		
14	AE		8F	9B	000BC		MOVZBW	#255, RESULT_DESC	1117	
18	AE		24	AE	9E	000C1	MOVAB	PARSE_HNAM, RESULT_DESC+4	1118	
			08	AE	D4	000C6	CLRL	RESULT_LEN	1119	
			08	AE	9F	000C9	PUSHAB	RESULT_LEN	1124	
			18	AE	9F	000CC	PUSHAB	RESULT_DESC		
			7E	D4	000CF		CLRL	-(SP)		
			18	AE	9F	000D1	PUSHAB	HELP_DEFAULT_FILE_NAME_DESC		
			7E	D4	000D4		CLRL	-(SP)		
			30	AE	9F	000D6	PUSHAB	HELP_DESC		
			57	DD	000D9		PUSHL	R7		
00000000G	00		07	FB	000DB		CALLS	#7, LBR\$OPEN		
	3C		50	E8	000E2		BLBS	R0, 10\$		
			66	D4	000E5		CLRL	EDT\$\$G_HELP_SET	1128	
		00000000G	8F	DD	000E7		PUSHL	#EDT\$_NOHLP\$VL	1129	
	68		01	FB	000ED		CALLS	#1, EDT\$\$FMT_MSG		
		00000000G	8F	DD	000F0		PUSHL	#EDT\$_FILNAM	1130	
00000000G	00		01	FB	000F6		CALLS	#1, EDT\$\$MSG_TOSTR		
			08	AE	D5	000FD	TSTL	RESULT_LEN	1132	
			09	12	00100		BNEQ	7\$		
	7E		1C	AE	3C	00102	MOVZWL	HELP_DESC, -(SP)	1134	
			24	AE	DD	00106	PUSHL	HELP_DESC+4		
			06	11	00109		BRB	8\$		
			08	AE	DD	0010B	7\$:	PUSHL	RESULT_LEN	1136
			1C	AE	DD	0010E		PUSHL	RESULT_DESC+4	
00000000G	00		02	FB	00111	8\$:	CALLS	#2, EDT\$\$FMT_STR		
00000000G	00		00	FB	00118		CALLS	#0, EDT\$\$OUT_FMTBUF	1138	
			19	11	0011F	9\$:	BRB	11\$	1139	
			01	D0	00121	10\$:	MOVL	#1, EDT\$\$G_HELP_SET	1142	
00000000G	00		01	D0	00124		MOVC3	RESULT_LEN, PARSE_HNAM, EDT\$\$T_HELP_NAM	1146	
	24		08	AE	D0	0012E	MOVL	RESULT_LEN, EDT\$\$G_HELP_NAMLEN	1147	
00000000G	00		01	D0	00136		MOVL	#1, R0	1148	
			04	04	00139		RET			
			50	D4	0013A	11\$:	CLRL	R0	1149	
			04	04	0013C		RET			

EDT\$HELP
V04-000

EDT\$HELP - process the HELP commands
EDT\$\$SET_HLPFNAM - set help library name

B 9
16-Sep-1984 00:31:46
14-Sep-1984 12:23:16

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]HELP.B32;1

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(5)

; Routine Size: 317 bytes, Routine Base: _EDT\$CODE + 0196

; 553 1150 1
; 554 1151 1 !<BLF/PAGE>

EDT
V04

EDT\$HELP
V04-000

EDT\$HELP - process the HELP commands
EDT\$\$\$SET_HLPFNAM - set help library name

C 9
16-Sep-1984 00:31:46
14-Sep-1984 12:23:16

VAX-11 Bliss-32 V4.0-742
DISK\$VM\$MASTER:[EDT.SRC]HELP.B32;1

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(6)

: 556
: 557
: 558
1152 1 END
1153 1
1154 0 ELUDOM

! of module EDT\$HELP

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$DATA	8	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
_EDT\$CODE	723	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	2	0	40	00:00.2
\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	10	0	581	00:03.9

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:HELP/OBJ=OBJ\$:HELP MSRC\$:HELP.B32/UPDATE=(ENH\$:HELP)

: Size: 719 code + 12 data bytes
: Run Time: 00:37.3
: Elapsed Time: 00:47.3
: Lines/CPU Min: 1855
: Lexemes/CPU-Min: 8244
: Memory Used: 160 pages
: Compilation Complete

0134 AH-BT13A-SE
VAX/VMS V4.0

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